

Windbreak Interpretations

Farmstead windbreaks protect livestock, buildings, and yards from wind and snow. They also protect fruit trees and gardens, and they furnish habitat for wildlife. Several rows of low-growing and high-growing broadleaf and coniferous trees and shrubs provide the most protection.

Field windbreaks are narrow plantings made at right angles to the prevailing wind and at specific intervals across the field. The interval depends on the erodibility of the soil. Field windbreaks protect cropland and crops from wind, help to keep snow on the fields, increase crop yields, and provide food and cover for wildlife.

Each tree or shrub species has certain climatic and physiographic limits. Within these parameters a tree or shrub may be well or poorly suited because of soil characteristics. Each tree or shrub also has definable potentials of height growth based on the soil type and climate.

Information in this subsection, which includes windbreak suitability groups and a windbreak and environmental plantings table, can be used as a guide in planning windbreaks and screens.

This subsection includes:

- **(a) Trees and Shrubs for Windbreak and Environmental Plantings**

(Absence of an entry indicates that trees generally do not grow to the given height.)

Map symbol and soil name	Trees having predicted 20-year average height, in feet, of--				
	<8	8-15	16-25	26-35	>35
BaB: Barco-----	---	---	---	---	---
BaC: Barco-----	---	---	---	---	---
Bk: Blackoar-----	buttonbush	possumhaw	nannyberry, eastern arborvitae, eastern redcedar	common hackberry, baldcypress, pin oak	eastern cottonwood
BoC2: Bolivar-----	---	---	---	---	---
BoD2: Bolivar-----	---	---	---	---	---
Br: Bremer-----	buttonbush	possumhaw	nannyberry, eastern arborvitae, eastern redcedar	common hackberry, baldcypress, pin oak	eastern cottonwood
DpB: Deepwater-----	---	american plum, gray dogwood, southern arrowwood	eastern redbud, washington hawthorn, eastern redcedar	white fir, green ash, northern red oak, tuliptree	eastern white pine
DpC2: Deepwater-----	---	american plum, gray dogwood, southern arrowwood	eastern redbud, washington hawthorn, eastern redcedar	white fir, green ash, northern red oak, tuliptree	eastern white pine
Dt: Dockery-----	---	---	---	---	---
Fs: Freeburg-----	american plum	blackhaw, gray dogwood	nannyberry, washington hawthorn, eastern redcedar	baldcypress, green ash, sweetgum	eastern white pine, pin oak

Table U.--Windbreaks and Environmental Plantings--Continued

Map symbol and soil name	Trees having predicted 20-year average height, in feet, of--				
	<8	8-15	16-25	26-35	>35
GoC2: Gorin-----	ninebark	gray dogwood, possumhaw, amur maple	eastern redcedar	austrian pine, common hackberry, norway spruce, honeylocust, pin oak	---
Hg: Haig-----	buttonbush	possumhaw	nannyberry, eastern arborvitae, eastern redcedar	common hackberry, baldcypress, pin oak	eastern cottonwood
Hp: Haplaquents-----	---	---	---	---	---
Urban Land-----	---	---	---	---	---
HtA: Hartwell-----	ninebark	gray dogwood, possumhaw, amur maple	eastern redcedar	austrian pine, common hackberry, norway spruce, honeylocust, pin oak	---
HtB2: Hartwell-----	ninebark	gray dogwood, possumhaw, amur maple	eastern redcedar	austrian pine, common hackberry, norway spruce, honeylocust, pin oak	---
HxC: Higginsville-----	american plum	blackhaw, gray dogwood	nannyberry, washington hawthorn, eastern redcedar	baldcypress, green ash, sweetgum	eastern white pine, pin oak
Ka: Kanima-----	---	---	---	---	---
Lg: Lightning Silt Loam-----	---	---	---	---	---
MaB: Macksburg-----	american plum	blackhaw, gray dogwood	nannyberry, washington hawthorn, eastern redcedar	baldcypress, green ash, sweetgum	eastern white pine, pin oak

Table U.--Windbreaks and Environmental Plantings--Continued

Map symbol and soil name	Trees having predicted 20-year average height, in feet, of--				
	<8	8-15	16-25	26-35	>35
MdB: Mandeville-----	---	---	---	---	---
MdC: Mandeville-----	---	---	---	---	---
Nd: Nodaway-----	---	---	---	---	---
NoD: Norris-----	---	---	---	---	---
NoF: Norris-----	---	---	---	---	---
Pd: Pits-----	---	---	---	---	---
PoB: Polo-----	---	---	---	---	---
PoC2: Polo-----	---	---	---	---	---
SaB: Sampsel-----	---	---	---	---	---
SaC: Sampsel-----	---	---	---	---	---
SaC3: Sampsel-----	---	---	---	---	---
ShB: Sharpsburg-----	---	---	---	---	---
SnD2: Snead-----	ninebark	gray dogwood, possumhaw, amur maple	eastern redcedar	austrian pine, common hackberry, norway spruce, honeylocust, pin oak	---
SoD: Snead-----	ninebark	gray dogwood, possumhaw, amur maple	eastern redcedar	austrian pine, common hackberry, norway spruce, honeylocust, pin oak	---

Table U.--Windbreaks and Environmental Plantings--Continued

Map symbol and soil name	Trees having predicted 20-year average height, in feet, of--				
	<8	8-15	16-25	26-35	>35
Rock Outcrop-----	---	---	---	---	---
SoF: Snead-----	ninebark	gray dogwood, possumhaw, amur maple	eastern redcedar	austrian pine, common hackberry, norway spruce, honeylocust, pin oak	---
Rock Outcrop-----	---	---	---	---	---
W: Water-----	---	---	---	---	---
Wa: Wabash-----	buttonbush	possumhaw	nannyberry, eastern arborvitae, eastern redcedar	common hackberry, baldcypress, pin oak	eastern cottonwood
WdB: Weller-----	---	---	---	---	---
WfB: Winfield-----	---	american plum, gray dogwood, southern arrowwood	eastern redbud, washington hawthorn, eastern redcedar	white fir, green ash, northern red oak, tuliptree	eastern white pine
WfC: Winfield-----	---	american plum, gray dogwood, southern arrowwood	eastern redbud, washington hawthorn, eastern redcedar	white fir, green ash, northern red oak, tuliptree	eastern white pine
WfC3: Winfield-----	---	american plum, gray dogwood, southern arrowwood	eastern redbud, washington hawthorn, eastern redcedar	white fir, green ash, northern red oak, tuliptree	eastern white pine
Zk: Zook-----	---	---	---	---	---

